

## CLAIMS

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1. In a wireless communication system supporting a uni-directional transmission, a method comprising:
    - generating a transmission frame;
    - determining a header for the transmission frame;
    - compressing the header using a first format; and
    - periodically generating at least one parameter of the first format.
  2. The method as in claim 1, wherein the uni-directional transmission is a broadcast service.
  3. The method as in claim 2, wherein the at least one parameter of the first format is interleaved between broadcast content in a broadcast stream of information.
  4. The method as in claim 3, wherein the broadcast stream of information is transmitted as Internet Protocol packets.
  5. The method as in claim 2, wherein compressing further comprises:
    - applying an ROHC format.
  6. In a wireless communication system supporting a uni-directional transmission, a method comprising:
    - receiving a transmission frame, the transmission frame having a header compressed using a first format;
    - receiving at least one parameter describing the first format; and
    - decompressing the transmission frame using the first format.
  7. The method as in claim 6, wherein the transmission frame is part of a broadcast stream of information.

8. The method as in claim 7, wherein the broadcast stream of information comprises Internet Protocol packets.

9. The method as in claim 8, wherein the at least one parameter is interleaved with broadcast content in the broadcast stream of information.

10. In a wireless communication system supporting a uni-directional transmission, an infrastructure element, comprising:

means for generating a transmission frame;

means for determining a header for the transmission frame;

means for compressing the header using a first format; and

means for periodically generating at least one parameter of the first format.

11. In a wireless communication system supporting a uni-directional transmission, an infrastructure element, comprising:

means for receiving a transmission frame, the transmission frame having a header compressed using a first format;

means for receiving at least one parameter describing the first format;

and

means for decompressing the transmission frame using the first format.

12. A digital signal storage device, comprising:

first set of instructions for receiving a transmission frame, the transmission frame having a header compressed using a first format;

second set of instructions for receiving at least one parameter describing the first format; and

third set of instructions for decompressing the transmission frame using the first format.

13. A communication signal transmitted on a carrier wave, comprising:

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a broadcast content portion comprising a plurality of transmission frames,  
each of the plurality of transmission frames having a compressed  
header;

and

6 a header protocol information portion, wherein the header protocol  
information portion includes information for decompressing at least  
8 one of the compressed headers of the plurality of transmission  
frames.

14. The communication signal as in claim 13, wherein the header protocol  
2 information portion is interleaved with the broadcast portion.

15. The communication signal as in claim 14, wherein the header protocol  
2 information portion is transmitted periodically.

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